North Carolina Heat Report August 22 – August 28, 2021

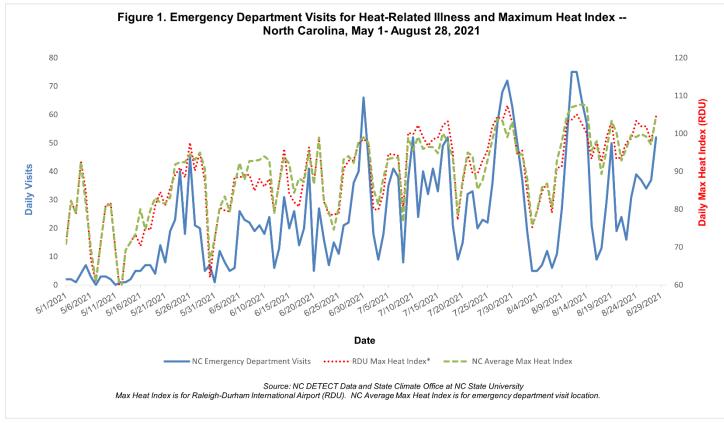


This Week

- Daily maximum heat indices ranged from 98°F to 105°F (median = 102°F) at Raleigh-Durham International Airport (RDU)
- 246 emergency department visits for heat-related illness were observed (Figure 1)
 - 72% of visits were for males, most were between ages 25 and 44.
 - The most frequent heat related diagnosis code was Heat Exhaustion (Table 2)
 - Most visits were seen in hospitals in the Piedmont (59%) and Coastal (37%) regions
 - 12% of visits were seen in hospitals in the Sandhills sub-region
- * This week the proportion of emergency department visits for heat-related illness was 0.27%, similar to the historical average (Figure 2)

Season to Date (August 2021)

- 2856 emergency department visits for heat-related illness have been identified (Figure 1)
- * Common activities preceding illness are working outdoors and recreation



¹The Sandhills sub-region is comprised of the following counties from the Piedmont and Coastal regions: Bladen, Cumberland, Harnett, Hoke, Lee, Montgomery, Moore, Richmond, Robeson, and Scotland.







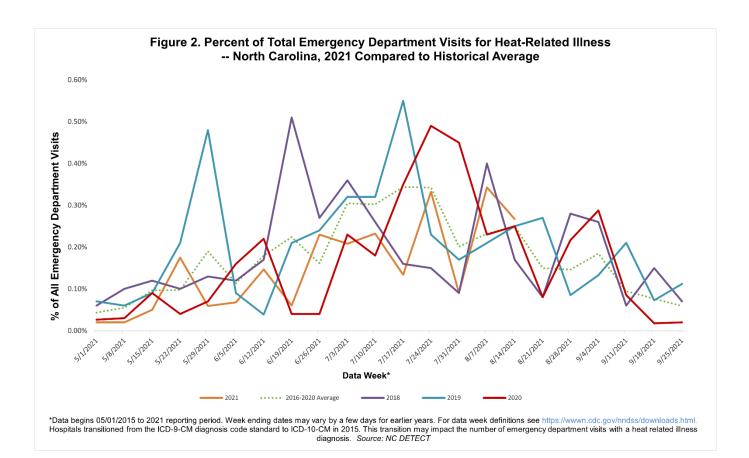
<u>Table 1.</u> Visits by sex and age group - August 22 – August 28, 2021

August 22 - August 20, 202 i			
	N=246*	(%)†	
Sex			
Male	177	(72)	
Female	69	(28)	
Age			
0-14	11	(5)	
15-18	11	(5)	
19-24	17	(7)	
25-44	87	(35)	
45-64	77	(31)	
65+	43	(17)	

<u>Table 2.</u> Visits by severity – August 22 – August 28, 2021

	N=135‡	(%)†
Severity§		
Heat Cramp	6	(4)
Heat Exhaustion	87	(64)
Heat Stroke	5	(4)
Heat Syncope	17	(13)
Other Effects	20	(15)

NOTE: Emergency department visit records and maximum heat indices were obtained from NC DETECT and the State Climate Office at NC State University, respectively. Heat-related illness is captured through a near real-time keyword search for 'heat', 'hot', 'hyperthermia', 'heat cramp', 'heat exhaustion', 'heat stroke', and 'sun stroke' in chief complaint or triage notes of emergency department records or a diagnosis code for heat-related illness. These figures present an estimate of the number of emergency department visits for heat-related illness. Please contact lauren.thie@dhhs.nc.gov for more information.



Disclaimer: The North Carolina Disease Event Tracking and Epidemiologic Collection Tool (NC DETECT) is an advanced, statewide public health surveillance system. NC DETECT is funded with federal funds by North Carolina Division of Public Health (NC DPH), Public Health Emergency Preparedness Grant (PHEP), and managed through a collaboration between NC DPH and the University of North Carolina at Chapel Hill Department of Emergency Medicine's Carolina Center for Health Informatics (UNC CCHI). The NC DETECT Data Oversight Committee does not take responsibility for the scientific validity or accuracy of methodology, results, statistical analyses, or conclusions presented. The NC DETECT Data Oversight Committee (DOC) includes representatives from the NC DPH, UNC NC DETECT Team and NC Hospital Association.

^{*}n may vary from weekly total visits † may not total 100 due to rounding ‡ missing severity data = 111 § definitions of heat related illness categories https://www.cdc.gov/niosh/topics/heatstress/heatrelillness.html Il other effects include heat fatigue, heat edema, other effects of heat and light, and other effects unspecified